

Design a database to keep track of information for an art museum. Assume that the following requirements were collected:

- The museum has a collection of ART\_OBJECTS. Each ART\_OBJECT has a unique Id\_no, an Artist (if known), a Year (when it was created, if known), a Title, and a Description. The art objects are categorized in several ways, as discussed below.
- ART\_OBJECTS are categorized based on their type. There are three main types: PAINTING, SCULPTURE, and STATUE, plus another type called OTHER to accommodate objects that do not fall into one of the three main types.
- A PAINTING has a Paint\_type (oil, watercolor, etc.), material on which it is Drawn\_on (paper, canvas, wood, etc.), and Style (modern, abstract, etc.).
- A SCULPTURE or a statue has a Material from which it was created (wood, stone, etc.), Height, Weight, and Style.

- An art object in the OTHER category has a Type (print, photo, etc.) and Style.
- ART\_OBJECTs are categorized as either PERMANENT\_COLLECTION (objects that are owned by the museum) and BORROWED. Information captured about objects in the PERMANENT\_COLLECTION includes Date\_acquired, Status (on display, on loan, or stored), and Cost. Information captured about BORROWED objects includes the Collection from which it was borrowed, Date\_borrowed, and Date\_returned.
- Information describing the country or culture of Origin (Italian, Egyptian, American, Indian, and so forth) and Epoch (Renaissance, Modern, Ancient, and so forth) is captured for each ART\_OBJECT.
- The museum keeps track of ARTIST information, if known: Name, DateBorn (if known), Date\_died (if not living), Country\_of\_origin, Epoch, Main\_style, and Description. The Name is assumed to be unique.
- Different EXHIBITIONS occur, each having a Name, Start\_date, and End\_date. EXHIBITIONS are related to all the art objects that were on display during the exhibition.
- Information is kept on other COLLECTIONS with which the museum interacts, including Name (unique), Type (museum, personal, etc.), Description, Address, Phone, and current Contact\_person.

Draw an EER schema diagram for this application. Discuss any assumptions you make, and that justify your EER design choices.